IN THE CLAIMS

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Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-10. (Canceled)
- 11. (Currently Amended) A method of manufacturing an information recording medium including a substrate and <u>a</u> recording layer disposed above the substrate, the method comprising forming the recording layer by a vapor deposition method,

wherein the recording layer comprises, as constituent elements, Ge, Sb, Te, Sn, and at least one element M selected from Ag, Al, Cr, Mn, and N and is transformed in phase reversibly between a crystal phase and an amorphous phase by an irradiation of an energy beam, and

the recording layer is formed of a material expressed by a composition formula of $[(Ge, Sn)_ASb_2Te_{3+A}]_{100-B}M_B$, where $0 < A \le 10$, $0 < B \le 20$ and M is at least one of Ag. Al, Cr, Mn or N.

- 12. (Original) The method of manufacturing an information recording medium according to claim 11, wherein the vapor deposition method is at least one method selected from a vacuum evaporation method, a sputtering method, an ion plating method, a chemical vapor deposition, and a molecular beam epitaxy.
- 13. (Original) The method of manufacturing an information recording medium according to claim 11, wherein the vapor deposition method is a sputtering method using a gas comprising at least one gas selected from nitrogen gas and oxygen gas and one rare gas selected from argon and krypton.

- 14. (Original) The method of manufacturing an information recording medium according to claim 11, wherein the recording layer is deposited at a deposition rate of 0.5 nm/sec to 5 nm/sec.
- 15. (Original) The method of manufacturing an information recording medium according to claim 11, wherein the recording layer has a thickness of 5 nm to 15 nm.